

L2 ANSWER 500 OF 771 USPATFULL on STN
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TITLE: Method of making and binding CAIP polypeptides
INVENTOR(S): Hsu, Yen-Ming, Lexington, MA, United States
PATENT ASSIGNEE(S): Biogen, Inc., Cambridge, MA, United States (U.S.
corporation)

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ASSISTANT EXAMINER:	Kaufman, Claire M.		
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.

DETD The inventor has discovered novel peptides that specifically interact with the CD2 intracellular domain and has provided a core physical structure having the ability to bind CD2 intracellular domain and to downstream intracellular protein. Once an example of this core structure has been provided one skilled in the art can alter the disclosed structure (of CAIP or CD2), e.g., by producing fragments or analogs, and test the newly produced structures for activity. Examples of prior art methods which allow the production and testing of fragments and analogs are discussed below. These, or analogous methods can be used to make and **screen** fragments and **analogs** of a CAIP-like polypeptide, e.g., a CAIP polypeptide, which bind CD2, or of a downstream intracellular **protein**. Likewise they can be used to make fragments and analogs of CAIP-like polypeptide ligands, e.g., CD2, which bind a CAIP-like polypeptide.

DETD Two hybrid assays such as the system described above (as with the other screening methods described herein), can be used to identify fragments or analogs of a CAIP polypeptide which binds to the intracellular domain of CD2. These may include agonists, superagonists, and antagonists. (The CD2 domain is used as the bait **protein** and the library of variants are expressed as fish fusion **proteins**.) In an **analogous** fashion, a two hybrid assay (as with the other **screening** methods described herein), can be used to find fragments and **analogs** of CD2 which bind a CAIP polypeptide.

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